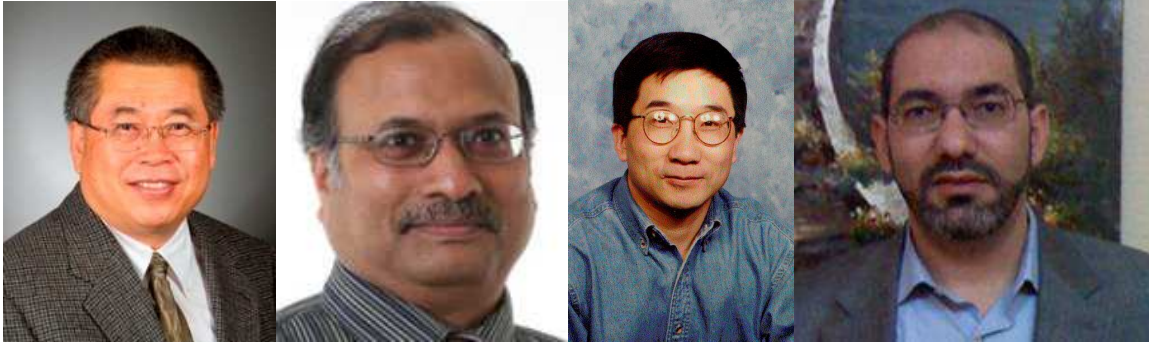


Welcome to the Annual International Conference on Computing, Networking and Communications (ICNC 2013), January 28—31, 2013, San Diego, California, USA



Guoliang Xue

Mukesh Singhal

Zhensheng Zhang

Khaled El-Maleh

General Chairs, ICNC 2013

On the behalf of the International Conference on Computing, Networking and Communications (ICNC 2013) Executive Committee, we are pleased to welcome you to the International Conference on Computing, Networking and Communications (ICNC 2013) and sunny San Diego, California. It has been a real honor and privilege to serve as the General Chairs of this conference. Continue the trend of ICNC'2012, ICNC'2013 has brought together a tremendous and rich diversity of authors and speakers from academia, government and industry around the globe to share ideas and new perspectives on a wide range of computing, communications and networking research. The popularity of the ICNC as a major forum for computing, communications and networking research has started to grow. This year's conference program consists of technical sessions of contributed papers, invited papers, workshops, and tutorials.

ICNC'2013 features three keynote lectures and six plenary lectures by world leaders in the field of computing, communications, and networking. On Tuesday, the conference program starts with the keynote lecture, titled "A clean slate approach to secure protocols for wireless networks", by Professor P.R. Kumar of Texas A&M University. On Wednesday, the conference program starts with the keynote lecture, titled "Architecture for high speed, large volume and low delay data transport networks", by Professor Vincent Chan of MIT. On Thursday, the conference program starts with the keynote lecture, titled "Analytical and experimental methods for high-performance network testing", by Dr. Nageswara S. V. Rao of Oak Ridge National Laboratory. All of our plenary speakers are distinguished researchers. They are Dr. Shu-Ching Chen (Professor, Florida International University, ACM Distinguished Scientist, SIRI Fellow), Dr. Mario Gerla (Professor of UCLA, IEEE Fellow), Dr. Huan Liu (Professor of Arizona State University, IEEE Fellow, ACM Distinguished Scientist), Dr. Ajay Luthra (Vice President of Motorola Mobility, Motorola Dan Noble Fellow), Dr. Mihaela van der Schaar (Chancellor's Professor of UCLA, IEEE Fellow) and Dr. Mehmet Yavuz (Senior Director, Qualcomm, USA).

ICNC'2013 also features six Qualcomm Distinguished Lectures and 12 Invited Talks. We are pleased to have the following Qualcomm Distinguished Lecturers: Flavio Bonomi, Cisco Fellow and Vice President of Cisco, USA; Charles Elkan, Professor at the University of California, San Diego, USA; Abbas Jamalipour, IEEE/IEICE Fellow and Chair Professor of Ubiquitous Mobile Networking, University of Sydney, Australia; Nei Kato, IEEE Fellow and IEEE Distinguished Lecturer, Professor, Tohoku University, Japan; Klara Nahrstedt, IEEE Fellow and Professor at

the University of Illinois, Urbana-Champaign, USA; and Yongbin Wei, Director, Qualcomm, USA. We are also pleased to have the following Distinguished Invited Speakers: Bane Vasic, IEEE Fellow and Professor at the University of Arizona, USA; David Tipper, Director, Graduate Telecommunications and Networking Program, University of Pittsburgh, USA; Erik Blasch, SPIE Fellow, Information Fusion Lead, Air Force Research Lab, USA; Irfan Awan HEA Fellow, Professor at the University of Bradford, UK; Jerry D. Gibson, IEEE Fellow and Professor and Chair of ECE, University of California, Santa Barbara, USA; Junshan Zhang, IEEE Fellow and Professor at Arizona State University, USA; Pamela Cosman, IEEE Fellow and Professor and Vice Chair of ECE, University of California, San Diego, USA; Pramod K. Varshney, IEEE Fellow and Distinguished Professor at Syracuse University, USA; Rene L. Cruz, IEEE Fellow and Professor at the University of California, San Diego, USA; Shrikanth Narayanan, IEEE/AAAS/ASA Fellow and Andrew J. Viterbi Professor of Engineering, University of Southern California, USA; Suresh Subramaniam, Professor at George Washington University, USA; S. J. Ben Yoo, IEEE/OSA Fellow and Professor at the University of California, Davis, USA; Urbashi Mitra, IEEE Fellow and Professor at University of Southern California, USA.

ICNC'2013 would not be possible without the hard work of many volunteers. We would like to take this opportunity to thank the executive committee members:

TPC Chair: Hung Nguyen, Aerospace, USA; TPC Co-Chairs: Peter Muller, IBM, Switzerland; Jun Zheng, Southeast University, China; Guan-Ming Su, Dolby Labs, USA; Tutorial Chairs: Tomohiko Taniguchi, Fujitsu, Japan; Dilip Krishnaswamy, Qualcomm, USA; Workshop Chairs: Kai Yang, Alcatel-Lucent, USA; Liang Zhou, NUPT, China; Invited Paper Chairs: Bin Wei, AT&T Labs, USA; Xun Luo, Qualcomm, USA. Publicity Chairs: Lei Shu, Osaka University, Japan; Jiang Zhu, Cisco, USA; Local/Event Arrangement Chair: Michelle Park, TIA, USA; Registration Chairs: Jianfei Shao, Maxim, USA; Zehan Wang, Imperial College London, UK; Publication Chair: Song Ci, University of Nebraska-Lincoln, USA; Conference Operation Chairs: Senad Busovaca, CSU, USA; EK Park, CSU Chico, USA; International Chairs: Irene Cheng, Univ. Alberta, Canada; Dacheng Tao, University of Technology Sydney, Australia; Tingkai Wang, London Metropolitan University, UK; Mei-Ling Shyu, University of Miami, USA; Niki Pissinou, FIU, USA; and Symposium Chairs:

- Wireless Ad hoc and Sensor Networks: Jalel Ben Othman, University of Paris 13, France; Cheng Li, Memorial University of Newfoundland, Canada; Marwan Fayed, University of Sterling, UK.
- Communications and Information Security: Suku Nair, Southern Methodist University, USA; Shui Yu, Deakin University, Australia; Kai Zheng, IBM Research Laboratory, China.
- Green Computing, Networking, and Communications: Walid Saad, University of Miami, USA; Dalei Wu, MIT, USA; Vinod Nambodiri, Wichita University, USA.
- Data Storage Technology and Applications: Lara Dolecek, University of California, Los Angeles, USA; Brian Kurkoski, University of Electro-Communications in Tokyo, Japan.
- Internet Services and Applications: Chonggang Wang, InterDigital Communications, USA; Kyungtae Kim, NEC Laboratories America, USA; Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece.
- Optical and Grid Computing: Abdallah Shami, The University of Western Ontario, Canada; Xiaojun Cao, Georgia State University, USA; Zuqing Zhu, University of Science and Technology of China, China.
- Network Algorithms and Performance Evaluation: Wenye Wang, North Carolina State University, USA; Enzo Mingozzi, University of Pisa, Italy; Jun Li, Canada Research Center, Canada.

- Signal Processing for Communications: Hsiao-Chun Wu, Louisiana State University, USA; Chih-Peng Li, National Sun Yat-sen University, Taiwan.
- Communications QoS and System Modeling: Lydia Y. Chen, IBM Zurich Research Lab, Switzerland; Antonio Pescapè, University of Napoli Federico II, Italy.
- Multimedia Computing and Communications: Vladan Velisavljevic, University of Bedfordshire, UK; Kai-lung Hua, NTUST, Taiwan; Shiva Sundaram, Deutsche Telekom Laboratories, Germany.
- Cognitive Computing and Networking: Alireza Babaei, Auburn University, USA; Haibin Ling, Temple University, USA; Gang Hua, Stevens Institute of Technology, USA.
- Wireless Communications: Yu Cheng, Illinois Institute of Technology, USA; Yi Qian, University of Nebraska-Lincoln, USA; Weiyi Zhang, AT&T Labs Research, USA.
- Wireless Networks: Raheem Beyah, Georgia Tech, USA; Rose Qingyang Hu, Utah State University, USA; Jian Tang, Syracuse University, USA.
- Mobile Computing and Vehicle Communications: Mea Wang, University of Calgary, Canada; Xiaoqing Zhu, Cisco, USA.
- Cloud Computing and Networking: Kui Ren, University at Buffalo, USA; Roberto Di Pietro, Roma Tre University of Rome, Italy; Jiang Zhu, Cisco, USA.

At last but not least, we would like to thank Qualcomm for the very generous support to the conference. The funding provided from Qualcomm was used to setup the Distinguished Lecture program in the event. It was our great honor and pleasure to accept the responsibilities and challenges of Conference General Chairs. We hope that the conference will provide a stimulating, informative, enjoyable and fulfilling experience to all who attend it.

General Chairs:

Guoliang Xue, Arizona State University, USA
Mukesh Singhal, University of California, Merced, USA

Vice General Chairs:

Zhensheng Zhang, Cubic Corporation, USA
Khaled El-Maleh, Qualcomm, USA